

# Prudhvi Raj Boyapalli

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## EDUCATION

**Rice University – B.S. Computer Science, May 2017**  
**Houston, Texas**

## SKILLS

**Java, Python, C, JavaScript, HTML, CSS, Unix Shell**

## EXPERIENCE

### **Research Assistant, Rice University | May – August 2015**

Worked in Dr. Lydia Kavraki's research group to create a web application for solving motion planning problems. This application allows users to configure, solve, and visualize solutions to robotic motion planning problems using sampling-based algorithms. Users also have the ability to benchmark multiple planning algorithms and compare performance across different types of problems.

### **Information Services Intern, J.B. Hunt Transport | May – August 2014**

Worked on the Web Solutions team to help develop, maintain, and support the JBHunt 360 application, a transport management system. Working primarily in Java and JavaScript, I identified bugs and possible improvements within the system, created and tested fixes, and implemented code into the production environment.

### **President, Rice Robotics Club | April 2014 – April 2015**

Coordinated club activities including the design and construction of competition robots, mentoring of high school students, and fundraising. I created and presented new workshops in equipment safety and robot construction to around 20 active members. I also worked with professors, sponsors, and club officers to organize events, host competitions, and arrange travel.

### **Research Assistant, Rice University | October 2014 – Present**

I am in the process of building a web application (using JavaScript and the D3 library) to visualize the compounds and reactions within metabolic pathways.

### **Teaching Assistant, Rice University | August – December 2014**

As a TA for COMP 140: Computational Thinking, I held weekly office hours to help students with their classwork and assignments. I also graded assignments and tests.

## TECHNICAL PROJECTS

- Open Motion Planning Library Web App: [omplapp.kavrakilab.org](http://omplapp.kavrakilab.org)
- Metabolic Pathway Visualization (In-progress):  
[prb2.web.rice.edu/metapaths/SearchResults.html](http://prb2.web.rice.edu/metapaths/SearchResults.html)
- See [prudhviboyapalli.com/projects](http://prudhviboyapalli.com/projects) for other projects